

INVARIANT, ANTI-INVARIANT AND SLANT SUBMANIFOLDS OF A METALLIC RIEMANNIAN MANIFOLD

Adara M. Blaga^{1,2} and Cristina E. Hreţcanu³

Abstract. Properties of invariant, anti-invariant and slant isometrically immersed submanifolds of metallic Riemannian manifolds are given with a special view towards the induced Σ -structure. Examples of such metallic manifolds are also given.

AMS Mathematics Subject Classification (2010): 53C07; 53C25; 53C40; 53C42

Key words and phrases: invariant; anti-invariant and slant submanifold; metallic Riemannian structure

1. Introduction

The theory of submanifolds has the origin in the study of the geometry of plane curves initiated by Fermat. Since then it has been evolving in different directions of differential geometry and mechanics, especially. It is still an active and vast research field playing an important role in the development of modern differential geometry. The modeling spaces of dynamical systems always carry different canonical geometrical objects: affine connections, differential forms, tensor fields etc. A natural question arising is when the submanifold inherits the geometrical structures of the ambient manifold. In this spirit, we shall consider a certain kind of isometrically immersed submanifolds of metallic Riemannian manifolds, namely, *slant* submanifolds. The notion of slant submanifold appeared for complex manifolds in Chen's book [4] and later in his works ([5], [6], [7], [18]). Remark that the slant submanifolds have been studied in different contexts: contact [13], LP-contact [12], K-contact [14], Kähler [3], Sasakian [2], Lorentzian [16], Kenmotsu [8], para-Kenmotsu [1], almost product Riemannian manifolds [17], almost paracontact metric manifolds [20].

We shall begin recalling the basic properties of a metallic Riemannian structure and prove some immediate consequences of the Gauss and Weingarten equations for an isometrically immersed submanifold in a metallic Riemannian manifold (M, J, g) . We also consider the Σ -structure induced by a metallic Riemannian structure on its submanifolds and establish a kind of inheritance property to the submanifolds of isometrically immersed submanifolds of M . In the main section we characterize the invariant, anti-invariant and slant submanifolds of M .

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Anti Inavariant Submanifolds

**Bang-Yen Chen, Mohammad Hasan
Shahid, Falleh Al-Solamy**



Anti Invariant Submanifolds:

Anti-invariant Submanifolds Kentarō Yano, Masahiro Kon, 1976

Anti-Invariant Submanifolds Kentaro Yano,

Contact Geometry of Slant Submanifolds Bang-Yen Chen, Mohammad Hasan Shahid, Falleh Al-Solamy, 2022-06-27 This book contains an up to date survey and self contained chapters on contact slant submanifolds and geometry authored by internationally renowned researchers The notion of slant submanifolds was introduced by Prof B Y Chen in 1990 and A Lotta extended this notion in the framework of contact geometry in 1996 Numerous differential geometers have since obtained interesting results on contact slant submanifolds The book gathers a wide range of topics such as warped product semi slant submanifolds slant submersions semi slant hemi slant Riemannian submersions quasi hemi slant submanifolds slant submanifolds of metric f manifolds slant lightlike submanifolds geometric inequalities for slant submanifolds 3 slant submanifolds and semi slant submanifolds of almost paracontact manifolds The book also includes interesting results on slant curves and magnetic curves where the latter represents trajectories moving on a Riemannian manifold under the action of magnetic field It presents detailed information on the most recent advances in the area making it of much value to scientists educators and graduate students

Recent Advances in Riemannian and Lorentzian Geometries Krishan L.

Duggal, Ramesh Sharma, 2003 This volume covers material presented by invited speakers at the AMS special session on Riemannian and Lorentzian geometries held at the annual Joint Mathematics Meetings in Baltimore Topics covered include classification of curvature related operators curvature homogeneous Einstein 4 manifolds linear stability instability singularity and hyperbolic operators of spacetimes spectral geometry of holomorphic manifolds cut loci of nilpotent Lie groups conformal geometry of almost Hermitian manifolds and also submanifolds of complex and contact spaces This volume can serve as a good reference source and provide indications for further research It is suitable for graduate students and research mathematicians interested in differential geometry

Geometry of Cauchy-Riemann Submanifolds Sorin

Dragomir, Mohammad Hasan Shahid, Falleh R. Al-Solamy, 2016-05-31 This book gathers contributions by respected experts on the theory of isometric immersions between Riemannian manifolds and focuses on the geometry of CR structures on submanifolds in Hermitian manifolds CR structures are a bundle theoretic recast of the tangential Cauchy Riemann equations in complex analysis involving several complex variables The book covers a wide range of topics such as Sasakian geometry Kaehler and locally conformal Kaehler geometry the tangential CR equations Lorentzian geometry holomorphic statistical manifolds and paraquaternionic CR submanifolds Intended as a tribute to Professor Aurel Bejancu who discovered the notion of a CR submanifold of a Hermitian manifold in 1978 the book provides an up to date overview of several topics in the geometry of CR submanifolds Presenting detailed information on the most recent advances in the area it represents a useful resource for mathematicians and physicists alike

Geometry, Analysis & Applications, Procs Of The Intl Conf Ram

Shankar Pathak, 2001-05-23 Geometrical concepts play a significant role in the analysis of physical systems Apart from the

intrinsic interest the knowledge of differentiable manifolds has become useful even mandatory in an ever increasing number of areas of mathematics and its applications Many results concepts in analysis find their most natural generalized setting in manifold theory An interrelation of geometry and analysis can be found in this volume The book presents original research besides a few survey articles by eminent experts from all over the world on current trends of research in differential and algebraic geometry classical and modern analysis including the theory of distributions linear and nonlinear partial differential equations and wavelets

Geometry of CR-Submanifolds and Applications Bang-Yen Chen, Mohammad Hasan Shahid, Gabriel-Eduard Vilcu, 2025-08-29 This book attempts to present a comprehensive survey of the geometry of CR submanifolds The theory of submanifolds is one of the most interesting topics in differential geometry The topic is introduced by Aurel Bejancu as a generalization of holomorphic and totally real submanifolds of almost Hermitian manifolds in 1978 Afterward the study of CR submanifolds became a very active research subject Organized into 22 chapters the book starts with basic knowledge of Riemannian manifolds and submanifolds almost Hermitian manifolds and their subclasses Hopf fibration symmetric spaces and a general inequality for submanifolds in complex space forms in Chaps 1 and 2 Later it presents the main results on CR submanifolds in Kaehler manifolds the basic inequalities associated with CR submanifolds in Kaehler manifolds and several theories and results related to Kaehler manifolds in Chaps 3 11 Further the book discusses the basics of almost contact metric manifolds and their subclasses CR submanifolds of Sasakian trans Sasakian and quasi Sasakian manifolds with a particular attention on the normal CR submanifolds in Chap 12 It also investigates the contact CR submanifolds of S manifolds the geometry of submersions of CR submanifolds and the results on contact CR warped product submanifolds in Chaps 16 18 20 In Chapter 19 we discuss submersions of CR submanifolds The book also presents some recent results concerning CR submanifolds of holomorphic statistical manifolds In particular it gives the classification of totally umbilical CR statistical submanifolds in holomorphic statistical manifolds as well as a Chen Ricci inequality for such submanifolds Chapter 21 In the last chapter we present results on CR submanifolds of indefinite Kaehler manifolds and their applications to physics

Differential Geometry Of Warped Product Manifolds And Submanifolds Bang-yen Chen, 2017-05-29 A warped product manifold is a Riemannian or pseudo Riemannian manifold whose metric tensor can be decomposed into a Cartesian product of the y geometry and the x geometry except that the x part is warped that is it is rescaled by a scalar function of the other coordinates y The notion of warped product manifolds plays very important roles not only in geometry but also in mathematical physics especially in general relativity In fact many basic solutions of the Einstein field equations including the Schwarzschild solution and the Robertson Walker models are warped product manifolds The first part of this volume provides a self contained and accessible introduction to the important subject of pseudo Riemannian manifolds and submanifolds The second part presents a detailed and up to date account on important results of warped product manifolds including several important spacetimes such as Robertson Walker s and Schwarzschild s

The famous John Nash's embedding theorem published in 1956 implies that every warped product manifold can be realized as a warped product submanifold in a suitable Euclidean space. The study of warped product submanifolds in various important ambient spaces from an extrinsic point of view was initiated by the author around the beginning of this century. The last part of this volume contains an extensive and comprehensive survey of numerous important results on the geometry of warped product submanifolds done during this century by many geometers.

CR Submanifolds of Kaehlerian and Sasakian Manifolds Kentaro Yano, Masahiro Kon, 2012-12-06

Complex Geometry of Slant Submanifolds Bang-Yen Chen, Mohammad Hasan Shahid, Falleh Al-Solamy, 2022-05-11 This book contains an up to date survey and self contained chapters on complex slant submanifolds and geometry authored by internationally renowned researchers. The book discusses a wide range of topics including slant surfaces, slant submersions, nearly Kaehler, locally conformal Kaehler and quaternion Kaehler manifolds. It provides several classification results of minimal slant surfaces, quasi minimal slant surfaces, slant surfaces with parallel mean curvature vector, pseudo umbilical slant surfaces and biharmonic and quasi biharmonic slant surfaces in Lorentzian complex space forms. Furthermore, this book includes new results on slant submanifolds of para Hermitian manifolds. This book also includes recent results on slant lightlike submanifolds of indefinite Hermitian manifolds which are of extensive use in general theory of relativity and potential applications in radiation and electromagnetic fields. Various open problems and conjectures on slant surfaces in complex space forms are also included in the book. It presents detailed information on the most recent advances in the area making it valuable for scientists, educators and graduate students.

Mathematical Essays: In Honor Of Su Buchin Chuan-chih Hsiung, 1983-12-01 This is a collection of research papers published in various mathematical journals by friends, colleagues and former students of Professor Buchin Su in honor of his 80th birthday and 50th year of educational work. Professor Su was born in 1902 in Pingyang County, Zhejiang Province, People's Republic of China. He received the degree of Bachelor of Science in mathematics from Tohoku University, Sendai, Japan in 1927 and the degree of Doctor of Science from the same university in 1931. After returning to China in 1931, he first taught at Zhejiang University in Hangzhou until 1952 when the whole College of Science of Zhejiang University was merged into Fudan University in Shanghai. During his 50 years of educational work, besides teaching, he also has taken up various administrative positions, serving as Chairman, Dean, Vice President and finally the President of Fudan University in 1978.

Selected Papers of Kentaro Yano M. Obata, 1982-01-01 Selected Papers of Kentaro Yano

Structures On Manifolds Masahiro Kon, K. Yano, 1985-02-01 Contents: Riemannian Manifolds, Submanifolds of Riemannian Manifolds, Complex Manifolds, Submanifolds of Kaehlerian Manifolds, Contact Manifolds, Submanifolds of Sasakian Manifolds, Structures, Product Manifolds, Submersions. Readership: Mathematicians. Keywords: Riemannian Manifold, Submanifold, Complex Manifold, Contact Manifold, Kaehlerian Manifold, Sasakian Manifold, Anti Invariant Submanifold, CR Submanifold, Contact CR Submanifold, Submersion.

Recent Advances in the Geometry of Submanifolds Bogdan D. Suceavă, Alfonso Carriazo, Yun Myung

Oh,Joeri Van der Veken,2016-09-14 This volume contains the proceedings of the AMS Special Session on Geometry of Submanifolds held from October 25 26 2014 at San Francisco State University San Francisco CA and the AMS Special Session on Recent Advances in the Geometry of Submanifolds Dedicated to the Memory of Franki Dillen 1963 2013 held from March 14 15 2015 at Michigan State University East Lansing MI The focus of the volume is on recent studies of submanifolds of Riemannian semi Riemannian Kaehlerian and contact manifolds Some of these use techniques in classical differential geometry while others use methods from ordinary differential equations geometric analysis or geometric PDEs By brainstorming on the fundamental problems and exploring a large variety of questions studied in submanifold geometry the editors hope to provide mathematicians with a working tool not just a collection of individual contributions This volume is dedicated to the memory of Franki Dillen whose work in submanifold theory attracted the attention of and inspired many geometers

Geometry of CR-Submanifolds Aurel Bejancu,2012-12-06 Approach your problems from the right end It isn't that they can't see the solution It is and begin with the answers Then one day that they can't see the problem perhaps you will find the final question G K Chesterton The Scandal of Father The Hermit Clad in Crane Feathers in R Brown The point of a Pin van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as experimental mathematics CFD completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics

Pseudo-Riemannian Geometry, $[\Delta]$ -invariants and Applications

Bang-yen Chen,2011 The first part of this book provides a self contained and accessible introduction to the subject in the general setting of pseudo Riemannian manifolds and their non degenerate submanifolds only assuming from the reader some basic knowledge about manifold

INTERNATIONAL JOURNAL OF MATHEMATICAL COMBINATORICS, VOLUME 3, 2017 Linfan Mao, In this issue there are 12 papers following Paper 1 Smarandache Curves of Curves lying on Lightlike Cone Paper 2 Intuitionistic fuzzy graph Paper 3 Smarandachely dominating Paper 4 Cohen Macaulay of Ideal Paper 5 Conformal k Contact Manifold Paper 6 First and second Zagreb indices Paper 7 Number of spanning trees Paper 8 Smarandachely strong dominating set Paper 9 Smarandachely equitable dominating set Paper 10 Smarandachely cordial labeling Smarandachely

cordial graph Paper 11 Smarandachely equitable dominating set Paper 12 Smarandachely cordial labeling

Differential Geometry of Lightlike Submanifolds Krishan L. Duggal, Bayram Sahin, 2011-02-02 This book presents research on the latest developments in differential geometry of lightlike degenerate subspaces The main focus is on hypersurfaces and a variety of submanifolds of indefinite Kählerian Sasakian and quaternion Kähler manifolds

Differential Geometry Elisabetta Barletta, Sorin Dragomir, Mohammad Hasan Shahid, Falleh R. Al-Solamy, 2025-07-07 This book

Differential Geometry Foundations of Cauchy Riemann and Pseudohermitian Geometry Book I C is the third in a series of four books presenting a choice of topics among fundamental and more advanced in Cauchy Riemann CR and pseudohermitian geometry such as Lewy operators CR structures and the tangential CR equations the Levi form Tanaka Webster connections sub Laplacians pseudohermitian sectional curvature and Kohn Rossi cohomology of the tangential CR complex Recent results on submanifolds of Hermitian and Sasakian manifolds are presented from the viewpoint of the geometry of the second fundamental form of an isometric immersion The book has two souls those of Complex Analysis versus Riemannian geometry and attempts to fill in the gap among the two The other three books of the series are *Differential Geometry Manifolds Bundles Characteristic Classes Book I A* *Differential Geometry Riemannian Geometry and Isometric Immersions Book I B* *Differential Geometry Advanced Topics in Cauchy Riemann and Pseudohermitian Geometry Book I D* The four books belong to an ampler book project *Differential Geometry Partial Differential Equations and Mathematical Physics* by the same authors and aim to demonstrate how certain portions of differential geometry DG and the theory of partial differential equations PDEs apply to general relativity and quantum gravity theory These books supply some of the ad hoc DG and PDEs machinery yet do not constitute a comprehensive treatise on DG or PDEs but rather authors choice based on their scientific mathematical and physical interests These are centered around the theory of immersions isometric holomorphic and CR and pseudohermitian geometry as devised by Sidney Martin Webster for the study of nondegenerate CR structures themselves a DG manifestation of the tangential CR equations

Total Mean Curvature And Submanifolds Of Finite Type (2nd Edition) Bang-yen Chen, 2014-10-29 During the last four decades there were numerous important developments on total mean curvature and the theory of finite type submanifolds This unique and expanded second edition comprises a comprehensive account of the latest updates and new results that cover total mean curvature and submanifolds of finite type The longstanding biharmonic conjecture of the author's and the generalized biharmonic conjectures are also presented in details This book will be of use to graduate students and researchers in the field of geometry

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